

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. Patent and Trademark Office
March 10, 2004
In re Patent Application of
Anders HÖRLING et al
Application No.: 10/653,244
Filed: September 3, 2003
For: PRECIPITATION HARDENED WEAR
RESISTANT COATING

)
) Group Art Unit: 1772
)
) Examiner: UNASSIGNED
) Confirmation No.: 2817
)
)

**INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

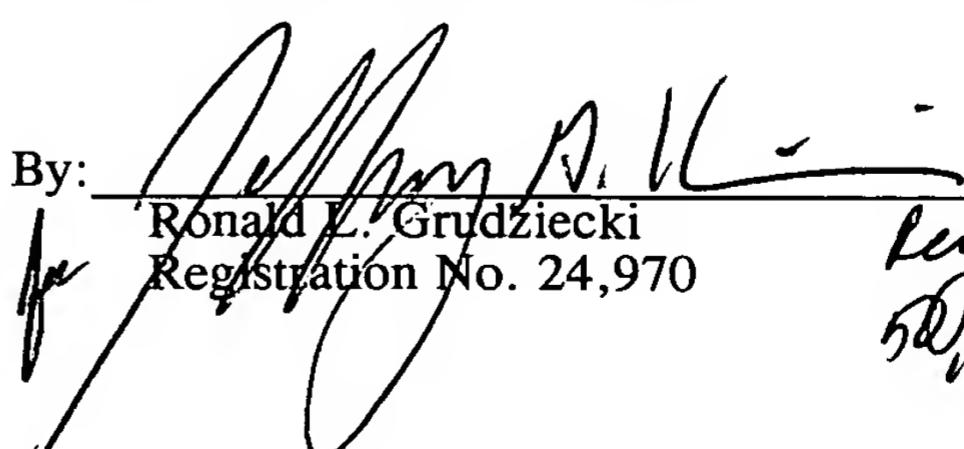
Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- No additional fee for submission of an IDS is required.
- The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- A check in the amount of \$_____ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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**FIRST
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the information listed on the attached form PTO-1449 in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b) no fee or statement is required.

Information Disclosure Statement
Application No. 10/653,244
Attorney's Docket No. 024445-377
Page 2

It is respectfully requested that an Examiner-initialed copy of the attached form PTO-1449 be returned to the undersigned.

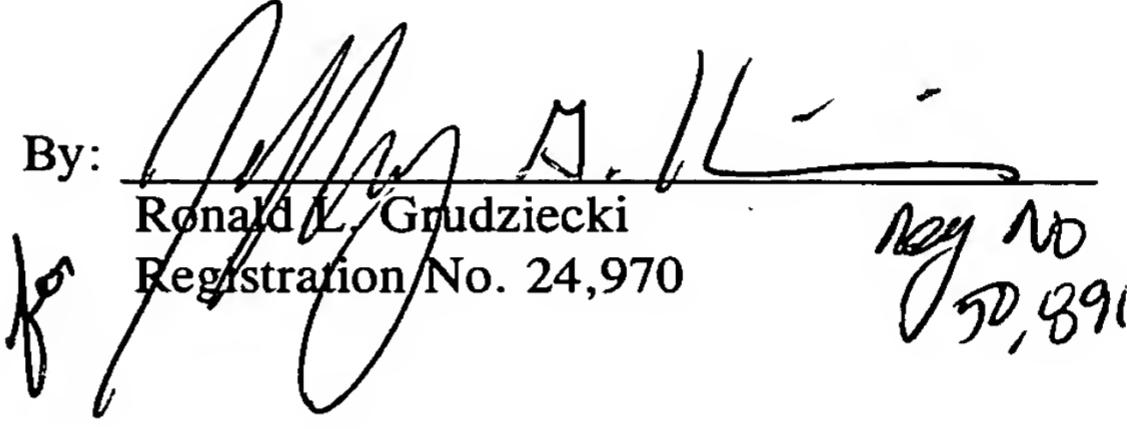
Respectfully submitted,

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Substitute for forms 1449A/PTO & 1449B/PTO		ATTORNEY'S DKT No. 024445-377	APPLICATION NO. 10/653,244
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Anders HÖRLING et al.	
		FILING DATE September 3, 2003	GROUP 1772



U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	5,272,014		LEYENDECKER et al.	12-21-1993
	5,330,853		HOFMANN et al.	07-19-1994
	5,503,912		SETOYAMA et al.	04-02-1996
	5,981,049		OHARA et al.	11-09-1999
	6,077,596		HASHIMOTO et al.	06-20-2000
	6,103,357		SELINDER et al.	08-15-2000
	6,254,984	B1	IYORI	07-03-2001
	6,309,738	B1	SAKURAI	10-30-2001
	2002/0081161	A1	YAMADA et al.	06-27-2002

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Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes No
	1 219 723	A2	EP	07-03-2002	
	11310867		JP	11-09-1999	
	9295204		JP	11-18-1997	

NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Hermann A. Jahn et al., MORPHOLOGY AND PROPERTIES OF SPUTTERED (Ti,Al)N LAYERS ON HIGH SPEED STEEL SUBSTRATES AS A FUNCTION OF DEPOSITION TEMPERATURE AND SPUTTERING ATMOSPHERE, J. Vac. Sci. Technol. A 4 (6), 2701 (1986)
	O. Knotek et al., ON STRUCTURE AND PROPERTIES OF SPUTTERED Ti AND Al BASED HARD COMPOUND FILMS, J. Vac. Sci. Technol. A 4 (6), 2695 (1986)
	B.-J. Kim et al., HIGH TEMPERATURE OXIDATION OF (Ti _{1-x} Al _x)N COATINGS MADE BY PLASMA ENHANCED CHEMICAL VAPOR DEPOSITION, J. Vac. Sci. Technol. A 17(1), 133 (1999)
	W.-D. Münz, TITANIUM ALUMINIUM NITRIDE FILMS - A NEW ALTERNATIVE TO TiN COATINGS, Int. Conf. Met. Coat., San Diego, USA (1986)
	Harland G. Tompkins, OXIDATION OF TITANIUM NITRIDE IN ROOM AIR AND IN DRY O ₂ , J. Appl. Phys. 70 (7), 3876 (1991)
	D. McIntyre et al., OXIDATION OF METASTABLE SINGLE-PHASE POLYCRYSTALLINE Ti _{0.5} Al _{0.5} N FILMS: KINETICS AND MECHANISMS, J. App. Phys. 67 (3), 1542 (1990)
	H. Holleck, METASTABLE COATINGS - PREDICTION OF COMPOSITION AND STRUCTURE, Surf. and Coat. Technol. 36, 151 (1988)

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.